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La perception visuelle de l'espace. Par B. BOURDON. [Bibliothèque de pédagogie et de psychologie, publiée sous la direction de A. BINET, No. IV.] Paris, Librairie C. Reinwald, Schleicher frères, 1902. —pp. 442.

In 1898 M. Victor Henri published his monograph on the spatial functions of the tactual senses. The present volume, on visual space perception, worthily supplements its predecessor. M. Bourdon treats in order of the dioptrics of the eye, of the elementary processes (retinal sensations, 'movement' sensations, sensations of innervation) concerned in the perceptions of space, of acuity of vision, of the perceptions of form, magnitude, position and direction, movement; of the doctrine of corresponding points, of monocular and binocular perception of the third dimension, of optical illusions, of the spatial attributes of the after-image, of experiments on children, and of the results of operation for congenital blindness, of the apparent distance and magnitude of the heavenly bodies, and of the interrelation of sight, touch, and movement. He has drawn freely upon the standard authorities, Helmholtz and Aubert, Wundt and Hering, and he also incorporates in his book a large amount of original material,—particularly in the chapters which deal with the specific space perceptions, and in those on corresponding points, and on our estimates of the size and distance of sun and moon. The work is thoroughly done, and the book will be most useful.

E. B. T.

Die Analyse der Empfindungen und das Verhältniss des Physischen zum Psychischen. Von E. MACH. Zweite, vermehrte Auflage der *Beiträge zur Analyse der Empfindungen.* Jena, G. Fischer, 1900.—pp. viii, 244.

Mach's *Beiträge zur Analyse der Empfindungen*, which appeared in 1886, has exercised an influence upon psychological and general scientific thinking which can hardly be overestimated. It was, as the author says in his new preface, not a system but an aperçu, intended to work as ferment in current systems; and that its work was well done is attested by such men as Avenarius, James, and Pearson.

An English translation, including an additional chapter on scientific prejudice, was done by Miss C. M. Williams, and published by The Open Court Co. in 1897. The present, or second German edition, contains four more new chapters: *Mein Verhältniss zu Richard Avenarius*; *Physik und Biologie*; *Causalität und Teleologie*; *Der Wille*; and *Empfindung, Gedächtniss, und Association*. A second edition of a classical work, especially when published more than a decade after the original, can never be very satisfactory; and most psychologists who know the book of 1886 will prefer it to this more elaborate volume. Professor Mach has, however, chosen the part of wisdom in leaving his former text intact, and inserting only such excursus as the advance of science had made absolutely necessary.

E. B. T.